

EAST BRS search

12/16/00

Datoboses: Us Patents, EPO,

JPO, and Derwent.

S. S.

unit area.

ABSTRACTED-PUB-NO: EP 616054B EQUIVALENT-ABSTRACTS: A method of manufacturing electrode foil for aluminium

electrolytic especitors made by carrying out an etching process divided into at

least two stages, comprising the steps of: electrically esching aluminium electrode foil by passing through a mineral soid selected from the group consisting of nitric acid, sulphur acid and a mixed acid thereof having a concentration of 2 to 15%, each added with at least one selected from the group

consisting of chromic acid, oxalic acid, citric acid, phosphoric acid, boric acid, succinic acid and malonic acid as an additive having a concentration of

0.1 to 0.8%, at a liquid temperature of 50 to 80 degrees C in an etching process of a final stage for increasing the diameter of pits created in a preceding stage to a diameter suitable for a forming treatment; and in the electrical etching, controlling the concentration of dissolved aluminium to to 25 g/l by any of said nitric acid, said sulphuric acid and said mixed acid

thereof, while keeping a dissolution amount of electric esthing in said

and at the rate of 20 to 60% of a total dissolution amount by etching .

US 5439565A

Mfg. electrode foil for Al electrolytic capacitors made by etching in at least 2 stages comprise etching Al electrode foil passing through HNO3 and/or H2SO4

with at least 1 of chronic acid, oxalic acid, citric acid, phosphoric acid, boric acid, succinic acid and malonic acid added as an additive in an etching

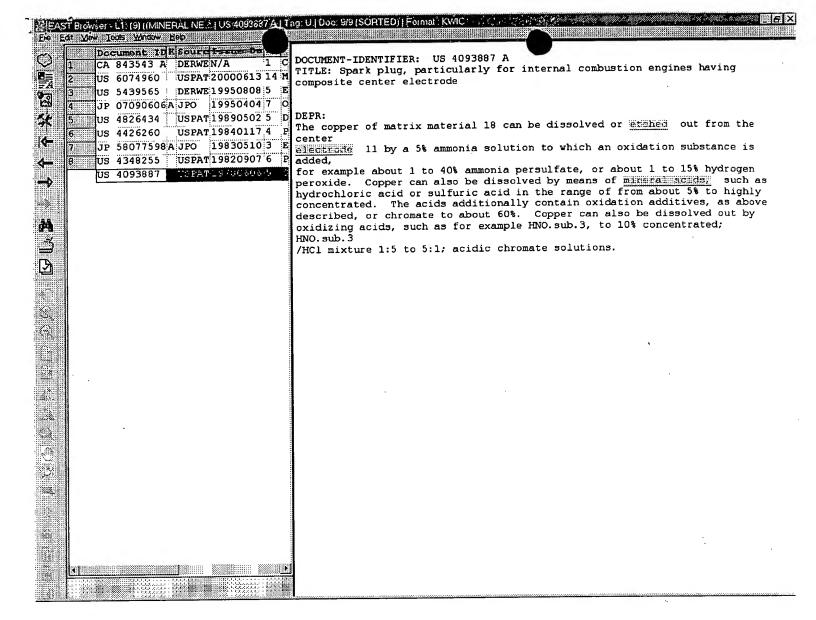
process of a final stage for increasing the dia. of pits created in a preceding

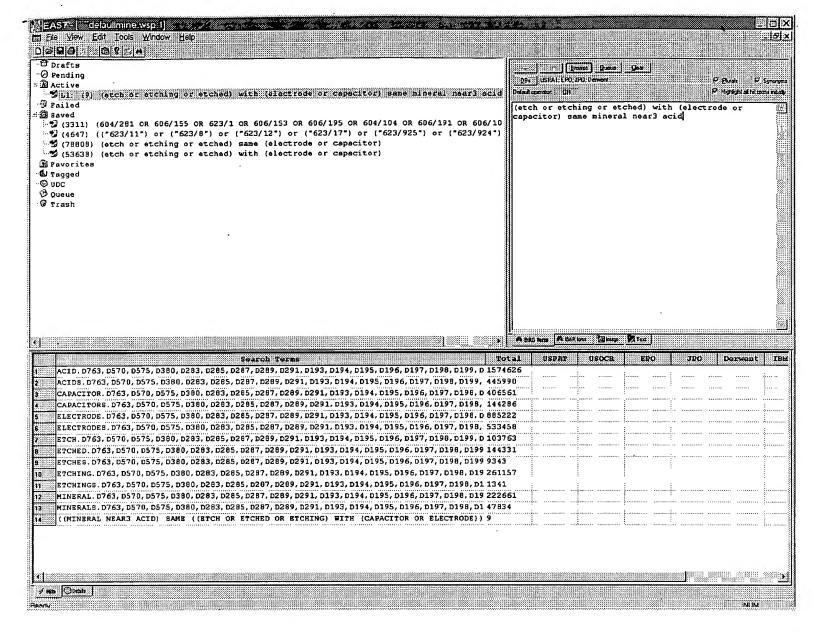
stage to a dia. suitable for voltage formation. The concn. of dissolved Al controlled to 5025 g/l by HNO3 and/or H2SO4 in electrical etching.

Pref. the concn. of additive added is 0.1-0.8%. The HNO3 or H2SO4 has a concn.

of 2-15% and a liq. temp. of 50-80 deg.C. The amt. of electric etching in the HNO3 or H2SO4 is 20-60% of a total amt. of dissolution by etching.

ADVANTAGE - The foil has high capacitance per unit area.





EAST BRS search 12/16/00

